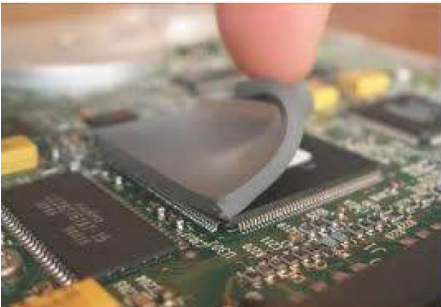


Hybrid Thermal Transfer/EMI Absorber

CoolZorb 700LF



HYBRID THERMAL/EMI ABSORBER

CoolZorb 700LF is a hybrid absorber/thermal management material that is used for EMI mitigation. Product is used like a traditional thermal interface material between heat source such as an IC and heat sink or other heat transfer device or metal chassis. CoolZorb 700LF also functions to suppress unwanted energy coupling, resonances or surface currents causing board level EMI issues.

FEATURES AND BENEFITS

- Designed using silicone gel binder that imparts inherent tack typical of standard thermal interface materials
- Filler particle composition imparts both good thermal conductivity and broadband EMI suppression starting below 1 GHz and well into the microwave frequency range
- CoolZorb 700LF exceeds UL94 V-0 requirements
- Product does not require peel and stick adhesive when used like a traditional thermal interface material due to its tacky, compliant properties

VALUE

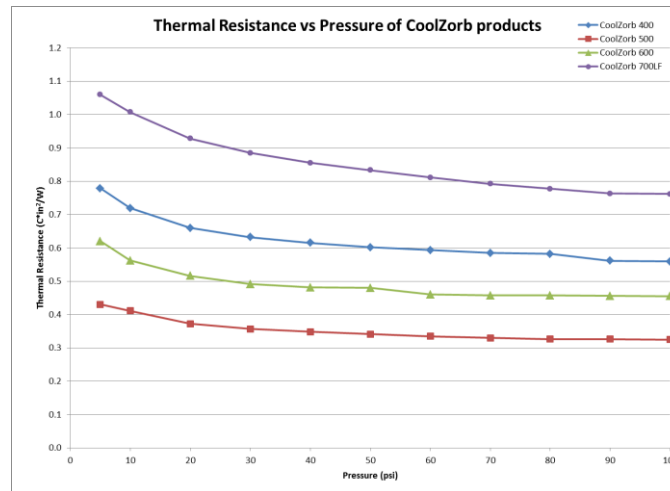
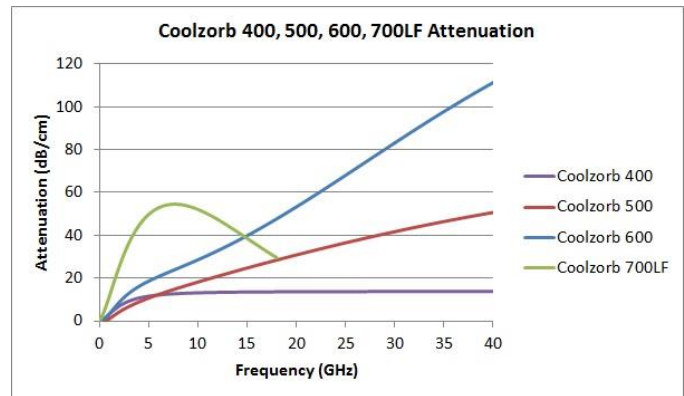
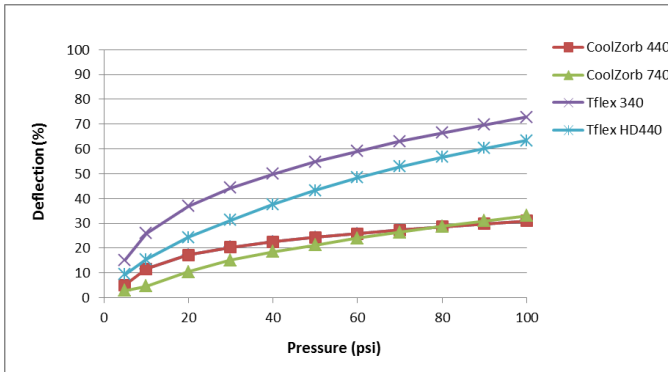
- Performance advantage comes from dual functional properties of thermal conductivity and EMI reduction
- Improved reliability performance of electronics
 - Better signal integrity due to reduction of EMI
 - Consistent performance of electronics due to temperature stability and low outgassing properties of product
- Improved EMC performance and resultant lower cost to meet compliance requirements
- Environmentally friendly solution that meets regulatory requirements including RoHS and REACH

TYPICAL PROPERTIES	DATA	TEST METHOD
Color	Dark gray	Visual
Thermal conductivity	2.0 W/m-K	ASTM D5470
Density	3.3 g/cc	ASTM D792
Hardness	53 Shore 00	ASTM D2240
Tensile strength	25 psi	ASTM D638
Temperature Range	-40°C to 175°C	NA
UL Flammability	V0	UL94
Volume resistivity	$1.6 \times 10^8 \Omega \cdot \text{cm}$	ASTM D257
Outgassing (%TML)	0.38	ASTM E595-07
Outgassing (%CVCM)	0.09	ASTM E595-07
Coefficient of Thermal Expansion (CTE)	$265 \mu\text{m/m} \cdot ^\circ\text{C}$	IPC-TM-650 2.4.41
Standard Thickness range	.020"-.125" (0.5-3.2mm)	
Thermal Resistance	$1.7 \text{ } ^\circ\text{Cin}^2/\text{W}$ @ 50 psi, for 0.100"	ASTM D5470
Thickness Tolerance	+/- 10%	

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Hybrid Thermal Transfer/EMI Absorber



AVAILABILITY

- Standard sheet size is 12" X 12"
- Standard Thickness availability range is 0.020" - 0.125" (0.5mm- 3.0 mm) in increments of 0.010" (0.25mm)
- No charge samples are available in 4" X 4" size for each of the above common thicknesses

PART NUMBER SYSTEM

- CoolZorb 700LF series absorber sheets (12"X12") use the following designation when ordering: CZ700LF-XXX where XXX is thickness of absorber in thousands of an inch
- CoolZorb 700LF series no charge absorber samples (4"X4") use the following designation when ordering: CZ700LFS-XXX where XXX is thickness of absorber in thousands of an inch
- Example: CZ700LF-020 = CoolZorb 700LF, .020"X12"X12" sheet size; Example: CZ700LFS-040 = CoolZorb 700LF, 0.040"X4"X4 no charge sample size

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